

FIG. 1

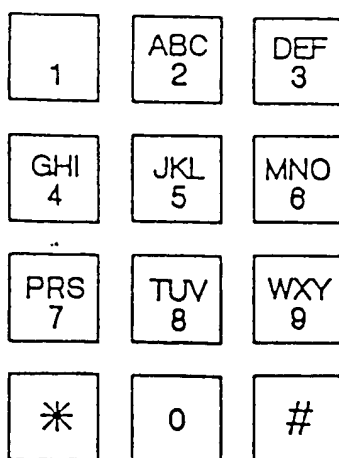


FIG. 2

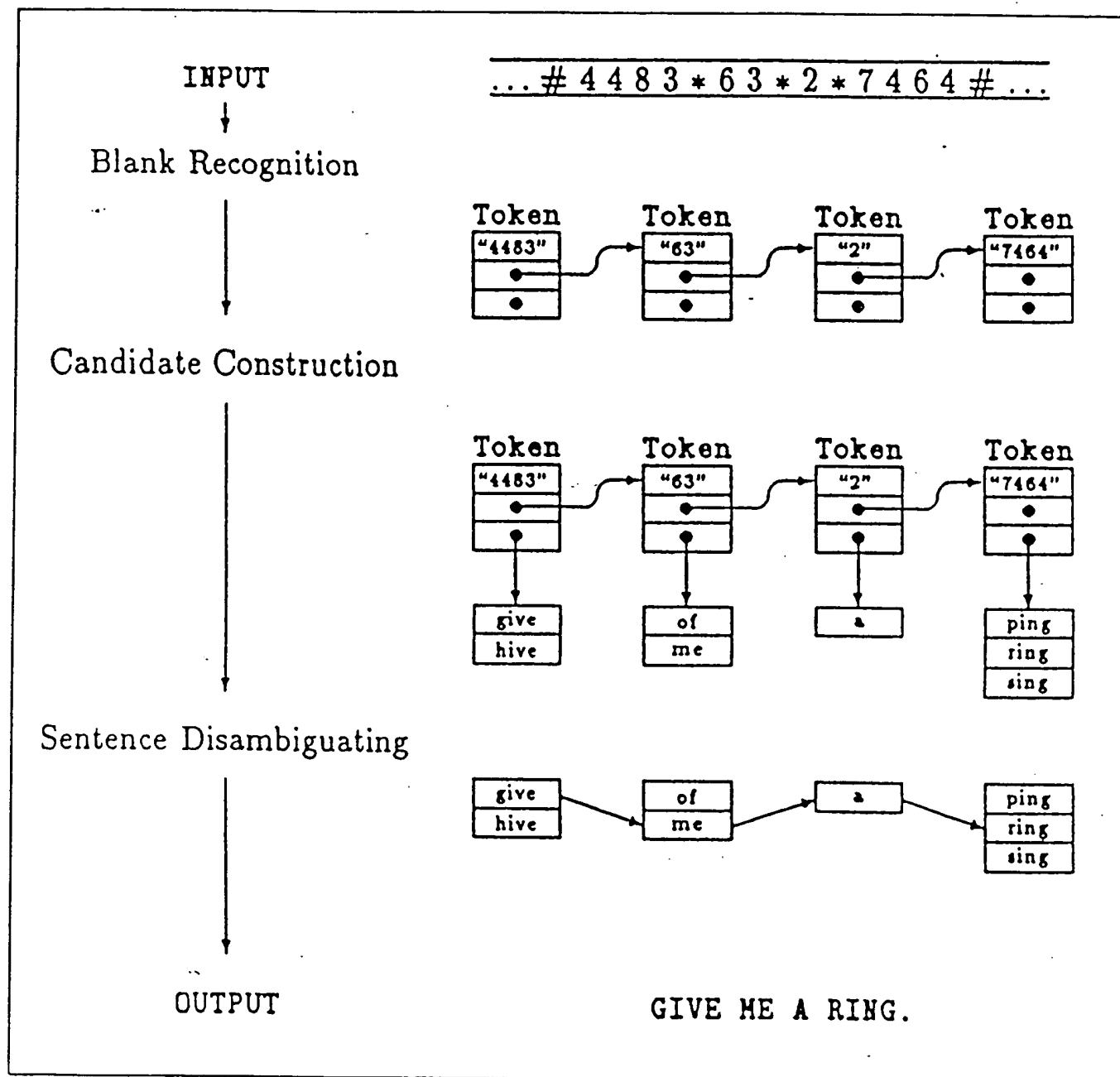


FIG. 3

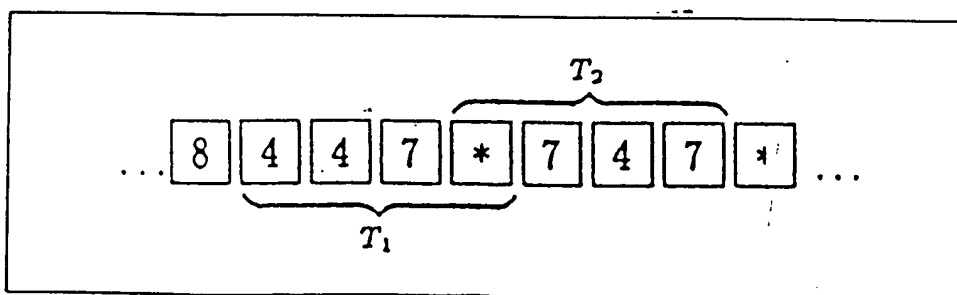


FIG. 4

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| <i>Number of<br/>coinciding codes</i> | <i>Words</i> | <i>Code<br/>Strings</i> |
|---------------------------------------|--------------|-------------------------|
| 1                                     | 41122        | 41122                   |
| 2                                     | 4896         | 2448                    |
| 3                                     | 1476         | 492                     |
| 4                                     | 588          | 147                     |
| 5                                     | 300          | 60                      |
| 6                                     | 174          | 58                      |
| 7                                     | 42           | 6                       |
| 8                                     | 48           | 6                       |
| 9                                     | 9            | 1                       |
| 10                                    | 0            | 0                       |
| 11                                    | 11           | 1                       |

FIG. 5

| <i>Code</i> | <i>Word Candidates</i>                                      | <i>Count</i> |
|-------------|---|--------------|
| 22737       | cases cares cards capes caper bases baser bares barer bards | 1 1          |
| 46637       | inner hoofs hoods hones honer homes homer goods goner       | 9            |
| 269         | coy cox cow boy box bow any amy                             | 8            |
| 76737       | sores sorer roses ropes roper poses poser pores             | 8            |
| 7283        | scud save sate rave rate pave pate Saud                     | 8            |
| 729         | say sax saw ray raw pay pax paw                             | 8            |
| 72837       | saves saver sates raves rates rater paves pater             | 8            |
| 2273        | case care card cape base bare bard acre                     | 8            |
| 7867        | suns sums stop runs rump puns pump                          | 7            |
| 752837      | slaves slaver slates slat r skates skater plates            | 7            |
| 4663        | hoof hood hone home goof good gone                          | 7            |

FIG. 6

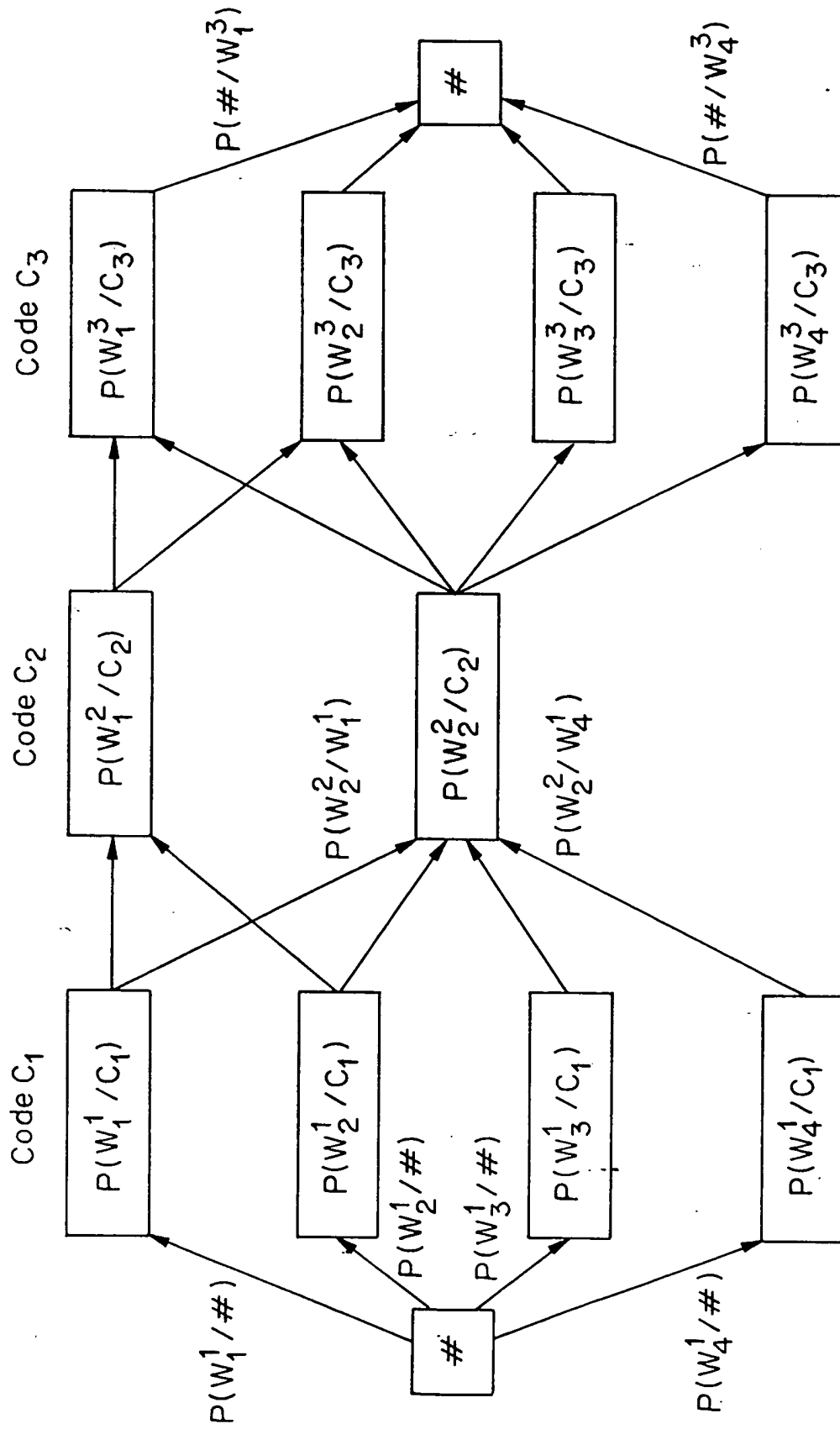


FIG. 7

| <i>List of Word Tags</i> |                                  |                      |
|--------------------------|----------------------------------|----------------------|
| Tag                      | Description                      | Examples             |
| ABL                      | pre-qualifier                    | <i>quite, rather</i> |
| ABN                      | pre-quantifier                   | <i>half, all</i>     |
| AP                       | post-determiner                  | <i>many, next</i>    |
| AT                       | article                          | <i>a, the, no</i>    |
| CC                       | coordination conjunction         | <i>and, or</i>       |
| DT                       | singular determiner              | <i>this, that</i>    |
| DTS                      | plural determiner                | <i>these, those</i>  |
| JJ                       | adjective                        | <i>compellable</i>   |
| NN                       | sing. or mass noun               | <i>powder</i>        |
| NNS                      | plural noun                      | <i>drafts</i>        |
| NR                       | adverbial noun                   | <i>home, west</i>    |
| VB                       | verb, base form                  | <i>take</i>          |
| VBD                      | verb, past tense                 | <i>took</i>          |
| VBG                      | verb, present participle, gerund | <i>taking</i>        |
| VCN                      | verb, past participle            | <i>taken</i>         |
| VBZ                      | verb, 3rd singular present       | <i>takes</i>         |
| WDT                      | wh- determiner                   | <i>what, which</i>   |

FIG. 8

| Phase                   | Characters identified | Errors of total | Accuracy | Time         |
|-------------------------|-----------------------|-----------------|----------|--------------|
| Total                   | 3155498               | 29875           | 99.05%   | 1.03 ms/char |
| Blank                   |                       |                 |          |              |
| Recognition             | 15.82%                | 0.45%           | 99.97%   | 12.88%       |
| Unknown Word            | 5.31%                 | 71.28%          | 87.28%   | 0.74%        |
| Split                   | 0.64%                 | 0.57%           | 99.15%   | 0.03%        |
| Affix                   | 1.58%                 | 12.04%          | 92.79%   | 0.07%        |
| Match                   | 2.41%                 | 37.12%          | 85.41%   | 0.35%        |
| Viterbi                 | 0.68%                 | 21.55%          | 70.03%   | 0.29%        |
| Sentence Disambiguation | 78.88%                | 28.27%          | 99.66%   | 86.11%       |

FIG. 9

| Text             | characters | characters correct | non-blanks correct | words correct | time per character |
|------------------|------------|--------------------|--------------------|---------------|--------------------|
| Clinton Speeches | 1073593    | 99.04%             | 98.86%             | 97.67%        | 0.97ms             |
| Herland          | 278670     | 98.24%             | 97.89%             | 97.02%        | 0.97ms             |
| Moby Dick        | 1123581    | 96.85%             | 96.25%             | 94.75%        | 1.14ms             |
| Bible            | 3961684    | 96.20%             | 95.39%             | 95.39%        | 1.33ms             |
| Shakespeare      | 4558202    | 95.20%             | 94.21%             | 92.86%        | 0.99ms             |

FIG. 10

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FOURSCORE AND SEVEN YEARS AGO  
OUR FATHERS BROUGHT FORTH ON  
THIS CONTINENT A NEW NATION CON-  
CEIVED IN LIBERTY AND DEDICATED  
TO THE PROPOSITION THAT ALL MEN  
ARE CREATED EQUAL.

NOW WE ARE ENGAGED IN A GREAT  
CIVIL WAR TESTING WHETHER THAT  
NATION OR ANY NATION SO CON-  
CEIVED AND SO DEDICATED CAN LONG  
ENDURE. WE ARE MET ON A GREAT  
BATTLEFIELD OF THAT WAS. WE  
HAVE COME TO DEDICATE A PORTION  
OF THAT FIELD AS A FINAL SERVING  
PLACE FOR THOSE WHO HERE HAVE  
THEIR LIVES THAT THE NATION MIGHT  
LIVE . IT IS ALTOGETHER FITTING AND  
PROPER THAT WE SHOULD DO THIS.

BUT IN A LARGER SENSE WE CAN NOT  
DEDICATE WE CAN NOT CONSECRATE  
WE CAN NOT HALLOW THIS GROUND.  
THE BRAVE MEN LIVING AND DEAD  
WHO STRUGGLED HERE HAVE CONSE-  
CRATED IT FAR ABOVE. OUR POOR  
POWER TO ADD OR DETRACT. THE  
WORLD WILL LITTLE NOTE NOR LONG

FIG. 11

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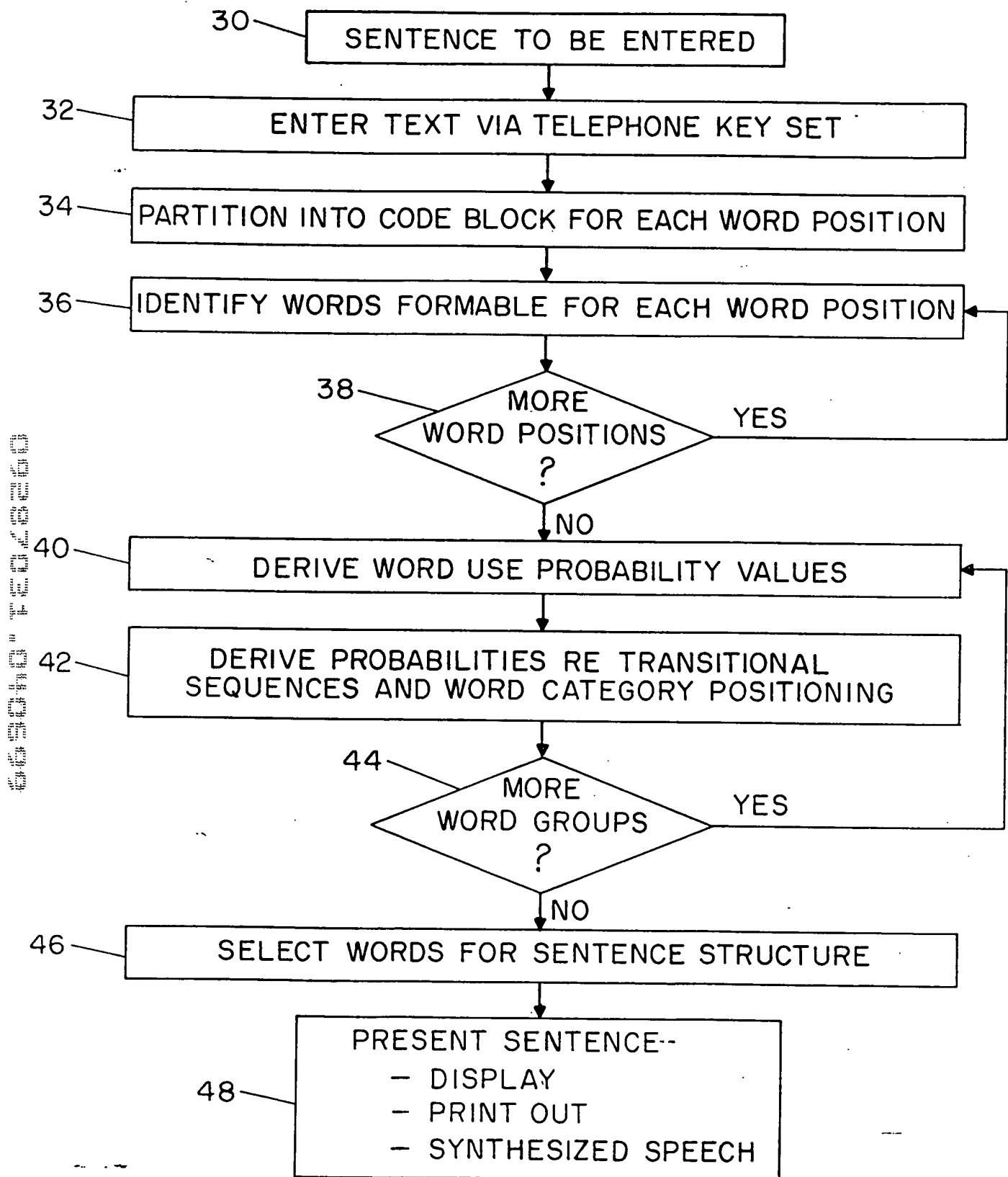


FIG. 12